**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| S1 | 1 | 10/520352 | US-PGPUB; USPAT | OR | OFF | 2008/03/06 15:08 |
| S2 | 4 | (("5790089") or ("6232939") or ("5546102") or ("5119089")).PN. | USPAT; USOCR | OR | OFF | 2008/03/06 15:09 |
| S3 | 697176 | (LCD "liquid crystal") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/06 15:09 |
| S4 | 398 | black near3 (screen image frame) near3 (insert$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/06 15:10 |
| S5 | 269 | S3 and S4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/06 15:10 |
| S6 | 4 | ("6320562" \| "6373456" \| "6392620" \| "6473077").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/06 15:14 |
| S7 | 3 | ("20030090449" \| "20040080480" \| "6771243").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/06 15:16 |
| S8 | 7 | ("20020003520" \| "20030001983" \| "20040113881" \| "5247289" \| "6677925" \| "6897908" \| "7079102").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/06 15:17 |
| S9 | 3 | ("20010038369" \| "3919476" \| "6396469").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/06 15:19 |
| S10 | 184 | frame near3 inversion and scanning near3 direction $2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/06 16:16 |

| S11 | 697176 | (LCD "liquid crystal") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/06 16:17 |
| S12 | 168 | S10 and S11 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/06 16:17 |
| S13 | 8487 | scanning near3 direction $2 near5 (different reverse opposite) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 10:54 |
| S14 | 697176 | (LCD "liquid crystal") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 10:54 |
| S15 | 1721 | S13 and S14 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 10:55 |
| S16 | 4256 | scanning near3 direction $2 near5 (change$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 10:55 |
| S17 | 101 | scanning near3 direction $2 near5 (change$2) same frame | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 10:55 |
| S18 | 21 | S14 and S17 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 10:55 |

| S19 | 17 | ("4709995" \| "4712877" \| "4747671" \| "4763994" \| "4796980" \| "5058994" \| "5221980" \| "5311206" \| "5818553" \| "5856814"). PN. OR ("6133894"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/07 11:04 |
|-----|-----|------|------|------|------|------|
| S20 | 270 | scanning near3 direction $2 same (top near2 bottom) same (chang$4 revers$4 opposite) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 11:14 |
| S21 | 56 | S14 and S20 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/03/07 11:14 |
| S22 | 6 | ((("7161573") or ("6532055") or ("5233338") or ("6525720") or ("6825823") or ("20020191104")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/07 11:59 |
| S23 | 50 | (LCD "liquid crystal") and (pseudoimpulse pseudo-impulse) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/29 15:33 |
| S24 | 8 | ("5103328" \| "5644332" \| "5844540" \| "5949391" \| "6211854" \| "6266370" \| "6329973").PN. OR ("7133015").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/29 15:35 |
| S25 | 1 | ("7006069").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/29 15:37 |
| S26 | 4 | ("5510805" \| "5648790" \| "6448718" \| "6882103"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/29 15:37 |
| S27 | 274 | (LCD "liquid crystal") and image and black near2 frame same (insert$2 between) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/29 15:38 |
| S28 | 359 | (LCD "liquid crystal") and image and black near2 frame same (insert$2 between after) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/29 15:38 |

| S29 | 4 | ("5151803" \| "5648793" \| "5734367" \| "5815131"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/29 15:43 |
|-----|---|------|------|------|------|------|
| S30 | 745887 | (LCD "liquid crystal") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/01 11:01 |
| S31 | 349 | (LCD "liquid crystal") and (impulse impulsive) near3 (drive driving) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/01 11:02 |
| S32 | 112 | (LCD "liquid crystal") and (impulse impulsive) near3 (drive driving) and black near3 image | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/01 11:02 |
| S33 | 3 | ("5028916" \| "6501453" \| "6903716").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/01 11:05 |
| S34 | 2 | 09/730610 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/01 11:09 |
| S35 | 4 | ("6320562" \| "6373456" \| "6392620" \| "6473077"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/01 11:09 |
| S36 | 6 | ("4691144" \| "5249152" \| "5844539" \| "6195072" \| "6211865" \| "6236388"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/01 11:11 |
| S37 | 2 | (LCD "liquid crystal") and (impulse implusive) and simultaneous near6 (black blank) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/01 11:15 |
| S38 | 59 | (LCD "liquid crystal") and (impulse impulsive) near3 (drive driving) and black near3 image and (simultaneous simultaneously) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/01 11:16 |
| S39 | 3 | ((("5233338") or ("6392620") or ("6947034")).PN. | USPAT; USOCR | OR | OFF | 2008/09/01 11:23 |
| S40 | 10537 | 345/87-100.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/01 12:58 |
| S41 | 1 | 10/520352 | US-PGPUB; USPAT | OR | OFF | 2009/01/07 09:49 |
| S42 | 1 | "6693618".pn. | US-PGPUB; USPAT | OR | OFF | 2009/01/07 13:59 |

| S43 | 6 | ("5151803" \| "5648793" \| "5734367" \| "5815131").PN. OR ("6693618").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/01/07 13:59 |
|-----|---|---|---|---|---|---|
| S44 | 4 | ("20030090449" \| "5805130" \| "6693618").PN. OR ("7176872").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/01/07 14:02 |
| S45 | 1 | "6693618".pn. | US-PGPUB; USPAT | OR | OFF | 2009/04/30 11:23 |
| S46 | 28 | ("5731796" \| "5844533" \| "5874933" \| "5926238" \| "5963190" \| "6181317").PN. OR ("6396469").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/30 11:26 |
| S47 | 13 | ("0033740" \| "20010042990" \| "20060139289" \| "5070431" \| "5095459" \| "5655165" \| "5867141" \| "5898510" \| "6046732" \| "6069603" \| "6326939" \| "6396469").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/30 11:34 |
| S48 | 16 | ("20020154088" \| "20020190944" \| "5168362" \| "5430488" \| "5844539" \| "6018331" \| "6124842" \| "6236388" \| "6366700" \| "6396469" \| "6448951" \| "6466186" \| "6600469" \| "6633283" \| "6753835" \| "6903716").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/30 11:45 |
| S49 | 26 | ("5844539").URPN. | USPAT | OR | OFF | 2009/04/30 14:09 |
| S55 | 46 | "shankar, vijay".xp. and "345"/$ and black same frame | USPAT | OR | OFF | 2009/06/08 12:34 |
| S56 | 4 | ("5510805" \| "5648790" \| "6448718" \| "6882103").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:48 |
| S57 | 216 | "Tanaka, Masahiro".in. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:48 |
| S58 | 47 | "Tanaka, Masahiro".in. and black | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:48 |
| S59 | 13 | "Tanaka, Masahiro".in. and black same frame | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:48 |
| S60 | 4 | ("5510805" \| "5648790" \| "6448718" \| "6882103").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:49 |

| S61 | 9 | ("5510805" \| "5648790" \| "6448718" \| "6882103").PN. OR ("7006069").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:50 |
|---|---|---|---|---|---|---|
| S62 | 1 | ("7006069").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:51 |
| S63 | 12 | ("20020024481" \| "20020033789" \| "20020158857" \| "20030090449" \| "20040080480" \| "20060139289" \| "6771243" \| "6937224" \| "7006069" \| "7027018" \| "7057597" \| "7170233").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:51 |
| S64 | 1 | ("20030090449").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:53 |
| S65 | 6 | ("20030090449").PN. OR ("7027018").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:54 |
| S66 | 9 | ("20020084959" \| "20020118157" \| "20030058229" \| "20030090449" \| "5883609" \| "6181312" \| "6396469" \| "6788277" \| "7027018").PN. OR ("7446760").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/08 12:55 |
| S67 | 13 | ((("20050052442") or ("20060192738") or ("20040212578") or ("7283130") or ("7038675") or ("6335778") or ("6307681") or ("6262702") or ("20070064187") or ("20040119924") or ("7227606") or ("7167224") or ("6661488")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/09 15:39 |
| S68 | 14 | ((("20050219188") or ("20040056831") or ("20030169247") or ("6590553") or ("0838400") or ("5739887") or ("6900853") or ("6903716") or ("7167141") or ("20030146712") or ("20020047555") or ("5643471") or ("5798744")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/09 15:41 |

| S69 | 8 | ("20020158831" \| "5627559" \| "5844539" \| "6236388" \| "6486864" \| "6600469" \| "6724358" \| "6771243").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/09 15:42 |
|-----|-----|-----|-----|-----|-----|-----|
| S71 | 749 | (LCD "liquid crystal") and black near5 (area band section) | FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/10 13:48 |
| S72 | 260 | "song, jang-kun".in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/11 10:57 |
| S73 | 3 | "11488067" | US-PGPUB; USPAT | OR | OFF | 2009/06/11 11:15 |
| S74 | 0 | "10488067" | US-PGPUB; USPAT | OR | OFF | 2009/06/11 11:16 |
| S75 | 1 | "10/488067" | US-PGPUB; USPAT | OR | OFF | 2009/06/11 11:16 |
| S76 | 29 | ((LCD "liquid crystal") and (area$2 region$2) and scan$4 and (image data picture normal) near3 signal$2 and black near3 (signal$2 data)).clm. | US-PGPUB; USPAT | OR | OFF | 2009/06/11 11:18 |
| S77 | 4 | "2002072968" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/11 14:57 |
| S78 | 2 | "20020044117" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/11 14:58 |
| S79 | 260 | (LCD "liquid crystal") and (scan$4 near4 groups) same (direction$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/11 15:18 |
| S80 | 0 | (LCD "liquid crystal") and (scan$4 near4 groups) same (direction$2 order) near4 (scan1$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/11 15:18 |

| S81 | 206 | (LCD "liquid crystal") and (scan$4 near4 groups) same (direction$2 order) near4 (scan$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/11 15:18 |
|-----|-----|-----|-----|-----|-----|-----|
| S82 | 5160 | (LCD "liquid crystal") and (persistence residual) near6 (image$2 picture$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/12 11:11 |
| S83 | 867 | (LCD "liquid crystal") and (persistence residual) near6 (image$2 picture$2) near6 (reduc$4 eliminat $4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/12 11:12 |
| S84 | 319 | (LCD "liquid crystal") and (persistence residual) near6 (image$2 picture$2) near6 (reduc$4 eliminat $4) and group$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/12 11:12 |
| S85 | 2 | "20020044117" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/12 11:43 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| L1 | 9 | ((LCD liquid near3 crystal) and scanning near3 (area$2 region $2 zone$2) near6 (first second third) and direction near3 (opposite reverse)). clm. | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/02 12:47 |

**12/2/2009 12:57:11 PM**
**C:\Documents and Settings\sholton\My Documents\EAST\Workspaces\LCD\10520352.wsp**